

DERWENT-ACC-NO: 2001-259669
DERWENT-WEEK: 200138
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TITLE: Thermocycler sandwiching microtitration plate between descending top cover and hotplate having accommodating recesses, includes ejection springs

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PRIORITY-DATA: 1999CH-0001782 (September 29, 1999)

PATENT-FAMILY:

PUB-NO MAIN-IPC	PUB-DATE	LANGUAGE	PAGES
JP 2001149801 007/00	June 5, 2001	N/A	005 B01L
A 003/00	April 4, 2001	G	010 B01L
EP 1088590 A1 001/02	March 30, 2001	N/A	000 C12M
NO 200004930 A			

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2001149801A 26, 2000	N/A	2000JP-0292117	September
EP 1088590A1 20, 2000	N/A	2000EP-0810855	September
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INT-CL_(IPC): B01L003/00; B01L007/00 ; C12M001/02 ; C12M001/38 ;
C12N001/06 ; C12Q001/68 ; G01N035/00

ABSTRACTED-PUB-NO: EP 1088590A

BASIC-ABSTRACT: NOVELTY - Compression spring lifters (7) distributed over the heater surface (3), project just above edges of the recesses (4), when the cover (not shown) is raised.

USE - A thermocycler subjecting the contents of a microtitration plate to thermal cycling, to promote specific chemical reactions. Favorable experience is reported in connection with (polymerase chain reactions) PCR, which require repeated temperature cycling.

ADVANTAGE - The pegs prevent the microtitration plate from baking onto the hotplate, making it particularly difficult to remove. Repeated Teflon (RTM; polytetrafluoroethylene) spraying is no longer needed. The springs lift the microtitration plate, on raising the cover. This presents it for easy handling, whether by manual or automatic means. Suitable, commercially-available equipment is nominated. Existing equipment is readily modified.

DESCRIPTION OF DRAWING(S) - The cross section show a side view of the raised microtitration plate, without the cover, all in vertical cross section.

heater surface 3

recesses 4

compression spring lifters 7

contact peg 9

CHOSEN-DRAWING: Dwg. 4b/4

TITLE-TERMS:

SANDWICH PLATE DESCEND TOP COVER HOTPLATE ACCOMMODATE RECESS EJECT SPRING

DERWENT-CLASS: A89 B04 D16 J04

CPI-CODES: A99-A; B04-E01; B11-C09; D05-A03C; J04-B01;

CHEMICAL-CODES:

Chemical Indexing M6 *01*

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